## **AMENDMENTS TO THE CLAIMS**

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- 1-41. (Canceled)
- 42. (Previously Presented) A method for treating cancer, comprising: administering to a human subject an effective amount for treating cancer of a CpG immunostimulatory oligonucleotide having at least one unmethylated CpG dinucleotide, wherein at least one nucleotide of the stabilized CpG immunostimulatory oligonucleotide has a phosphate backbone modification and wherein the oligonucleotide is 8 to 100 nucleotides in length.
- 43. (Previously Presented) The method of claim 42, further comprising administering a chemotherapeutic agent.
- 44. (Previously Presented) The method of claim 42, further comprising administering a cancer immunotherapeutic agent.
  - 45. (Previously Presented) The method of claim 42, wherein the cancer is brain cancer.
  - 46. (Previously Presented) The method of claim 42, wherein the cancer is lung cancer.
- 47. (Previously Presented) The method of claim 42, wherein the cancer is ovarian cancer.
  - 48. (Previously Presented) The method of claim 42, wherein the cancer is breast cancer.
- 49. (Previously Presented) The method of claim 42, wherein the cancer is prostate cancer.
  - 50. (Previously Presented) The method of claim 42, wherein the cancer is colon cancer.

51. (Previously Presented) The method of claim 42, wherein the cancer is leukemia.

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- 52. (Previously Presented) The method of claim 42, wherein the cancer is carcinoma.
- 53. (Previously Presented) The method of claim 42, wherein the cancer is sarcoma.
- 54-55. (Canceled)
- 56. (Previously Presented) The method of claim 42, wherein the phosphate backbone modification is a phosphorothicate modification.
- 57. (Previously Presented) The method of claim 56, wherein the CpG immunostimulatory oligonucleotide includes the phosphate backbone modification on the 5' internucleotide linkages.
- 58. (Previously Presented) The method of claim 56, wherein the CpG immunostimulatory oligonucleotide includes the phosphate backbone modification on the 3' internucleotide linkages.
- 59. (Previously Presented) The method of claim 42, wherein the CpG immunostimulatory oligonucleotide comprises:

wherein  $X_1X_2$  and  $X_3X_4$  are nucleotides.

- 60. (Currently Amended) The method of claim 59, wherein  $X_3X_4$  are nucleotides selected from the group consisting of: TpT, and TpC.
- 61. (Previously Presented) The method of claim 59, wherein  $X_1X_2$  are GpA and  $X_3X_4$  are TpT.

62. (Previously Presented) The method of claim 59, wherein  $X_1X_2$  are both purines and  $X_3X_4$  are both pyrimidines.

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- 63. (Previously Presented) The method of claim 59, wherein  $X_1X_2$  are GpA and  $X_3X_4$  are both pyrimidines.
- 64. (Previously Presented) The method of claim 59, wherein the oligonucleotide is 8 to 40 nucleotides in length.
- 65. (Previously Presented) The method of claim 59, wherein 5'  $X_1$   $X_2$ CG $X_3$   $X_4$  3' is not palindromic.
- 66. (Previously Presented) The method of claim 42, wherein the CpG immunostimulatory oligonucleotide includes at least two CpG motifs.
- 67. (Previously Presented) The method of claim 66, wherein at least one of the at least two CpG motifs is not palindromic.
- 68. (Previously Presented) The method of claim 42, wherein the oligonucleotide is administered prior to a chemotherapy.
- 69. (Previously Presented) The method of claim 42, wherein the oligonucleotide is administered subcutaneously.
- 70. (Previously Presented) The method of claim 42, wherein the oligonucleotide is administered with an antibody for antibody dependent cellular cytotoxicity.

71. (Previously Presented) A method for treating non small cell lung carcinoma (NSCLC) in a human subject, comprising

administering to a human subject having NSCLC an effective amount to treat NSCLC of an immunostimulatory oligonucleotide that includes at least one unmethylated CpG dinucleotide, wherein the immunostimulatory oligonucleotide includes a phosphate backbone modification and, wherein the oligonucleotide is 8 to 100 nucleotides in length.

- 72. (Previously Presented) The method of claim 71, further comprising administering a chemotherapeutic agent.
- 73. (Previously Presented) The method of claim 71, further comprising administering an immunotherapeutic agent.
- 74. (Previously Presented) The method of claim 71, wherein the phosphate backbone modification is a phosphorothicate modification.
- 75. (Previously Presented) The method of claim 71, wherein the oligonucleotide is 8 to 40 nucleotides in length.
- 76. (Previously Presented) The method of claim 71, wherein the CpG immunostimulatory oligonucleotide includes at least two CpG motifs.
- 77. (Previously Presented) The method of claim 76, wherein at least one of the at least two CpG motifs is not palindromic.
- 78. (Previously Presented) The method of claim 71, wherein the oligonucleotide is administered subcutaneously.